

obsolete
10/64 **12AX7**

High-Mu Twin Triode

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

	Series	Parallel	
Heater arrangement			
Voltage (AC or DC)	12.6	$6.3 \pm 10\%$	volts
Current	$0.15 \pm 6\%$	0.3	amp

Direct Interelectrode Capacitances (Approx.):

	Without External Shield	With External Shield ^a	
Grid to plate (Each unit)	1.7	1.7	μf
Grid to cathode and heater (Each unit)	1.6	1.8	μf
Plate to cathode and heater:			
Unit No.1	0.46	1.9	μf
Unit No.2	0.34	1.9	μf

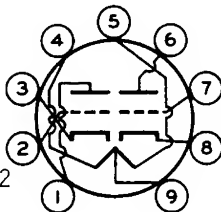
Characteristics, Class A₁ Amplifier (Each Unit):

Plate Voltage	100	250	volts
Grid Voltage	-1	-2	volts
Amplification Factor	100	100	
Plate Resistance (Approx.)	80000	62500	ohms
Transconductance	1250	1600	μmhos
Plate Current	0.5	1.2	ma

Mechanical:

Operating Position. Any
 Maximum Overall Length. 2-3/16"
 Maximum Seated Length 1-15/16"
 Length, Base Seat to Bulb Top (Excluding tip) . . 1-9/16" $\pm$ 3/32"
 Diameter. 0.750" to 0.875"
 Dimensional Outline See *General Section*
 Bulb. T6-1/2
 Base. Small-Button Noval 9-Pin (JEDEC No.E9-1)
 Basing Designation for BOTTOM VIEW. 9A

Pin 1 - Plate of Unit No.2	Pin 6 - Plate of Unit No.1
Pin 2 - Grid of Unit No.2	Pin 7 - Grid of Unit No.1
Pin 3 - Cathode of Unit No.2	Pin 8 - Cathode of Unit No.1
Pins 4 & 9 - Heater of Unit No.2	Pin 9 - Heater Tap
Pins 5 & 9 - Heater of Unit No.1	



← Indicates a change.



RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA
1-62

12AX7

AMPLIFIER — Class A₁

Values are for Each Unit

→ **Maximum Ratings, Design-Maximum Values:**

PLATE VOLTAGE. 330 max. volts

GRID VOLTAGE:

Negative-bias value. 55 max. volts

Positive-bias value. 0 max. volts

PLATE DISSIPATION. 1.2 max. watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. . 200 max. volts

Heater positive with respect to cathode. . 200^b max. volts

Typical Operation as Resistance-Coupled Amplifier:

See *RESISTANCE-COUPLED-AMPLIFIER CHART No. 25*
at front of this Section

^a With external shield JEDEC No. 315 connected to cathode of unit under test.

^b The dc component must not exceed 100 volts.

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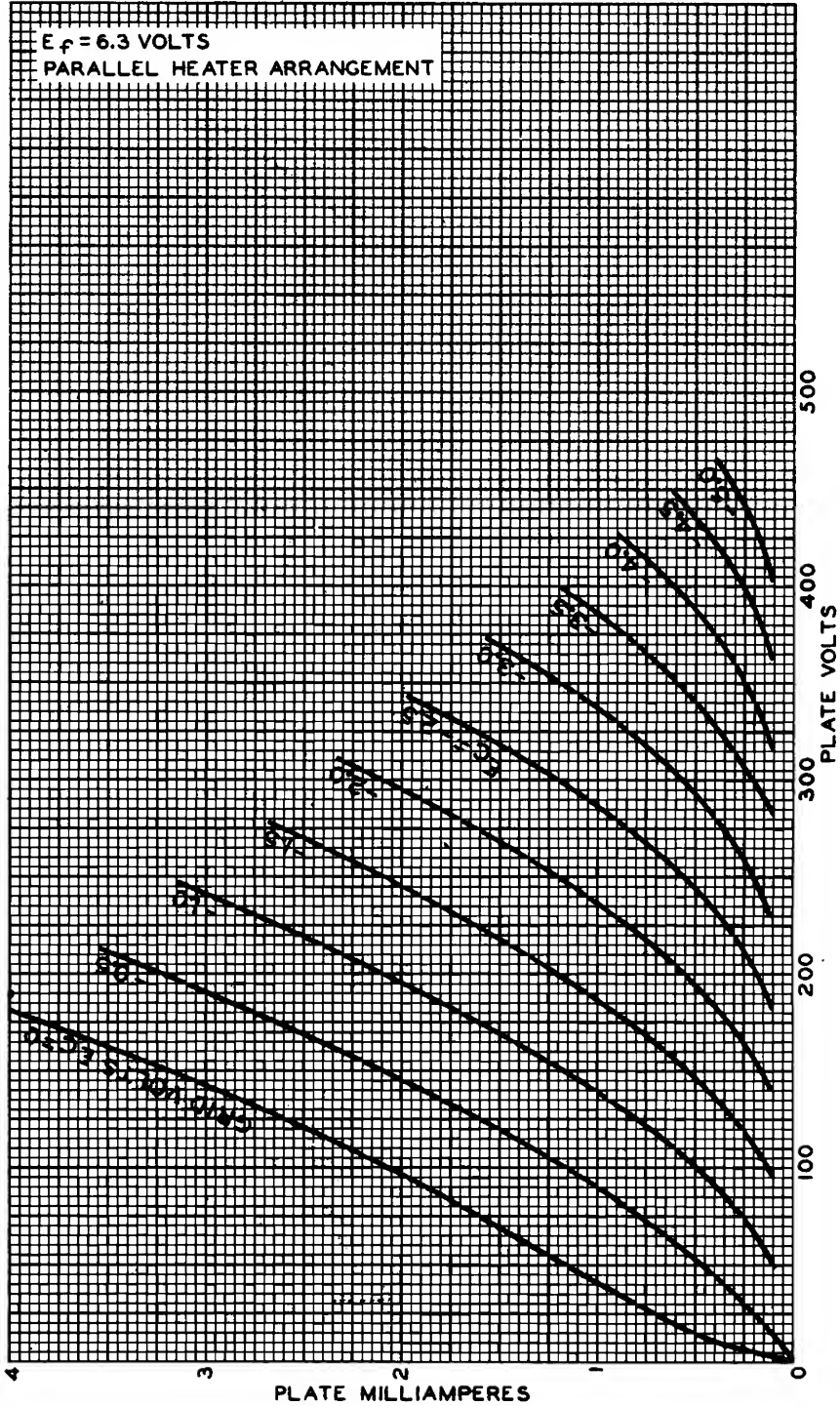


12AX7

of plate
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AVERAGE PLATE CHARACTERISTICS FOR EACH UNIT



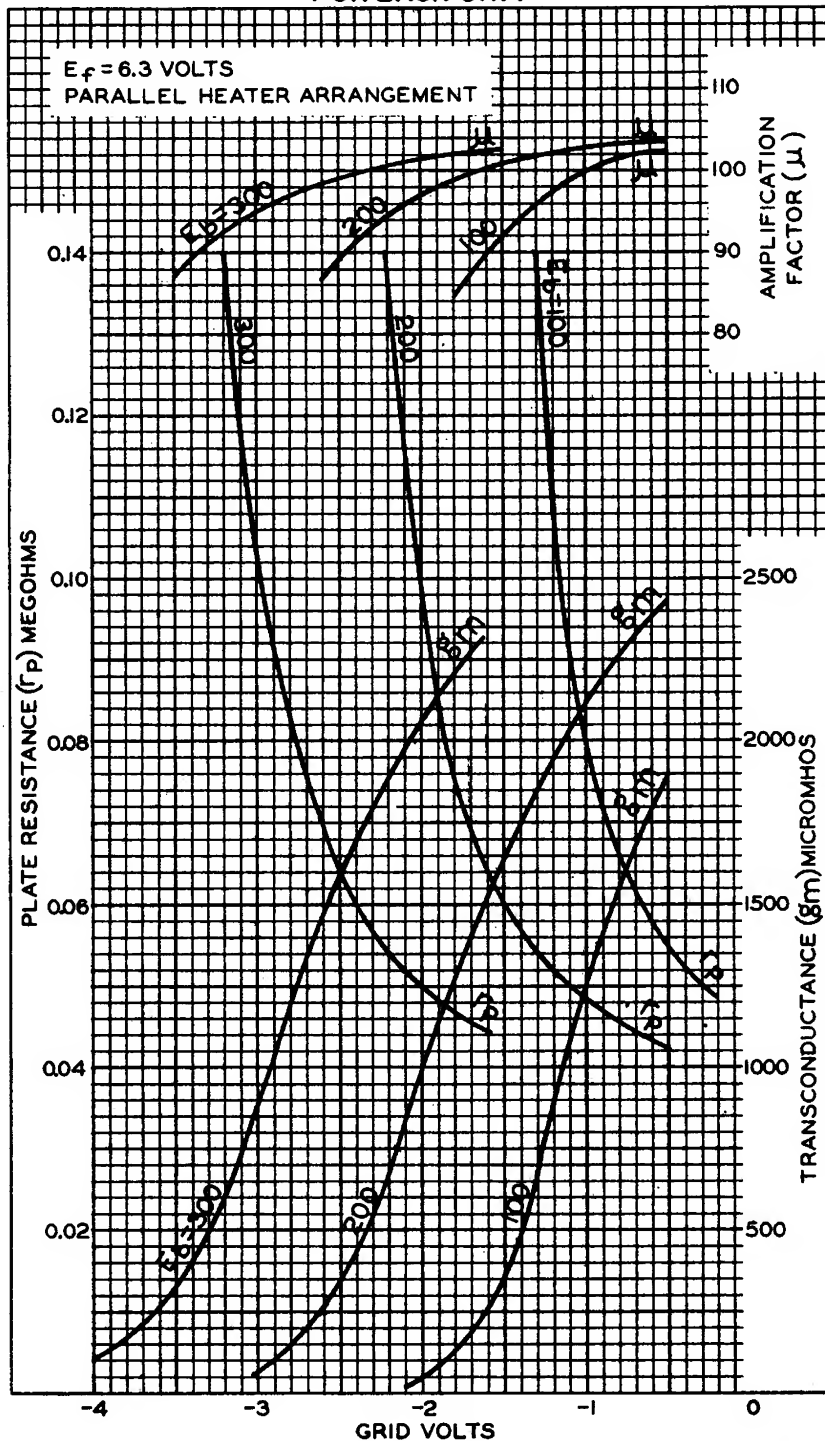
JULY 30, 1947

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6879



12AX7
AVERAGE CHARACTERISTICS
FOR EACH UNIT



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92CM-6880